

### CLAIMS

1. A water treatment apparatus provided with a purifying means that comprises a filtration means and a pump-electric motor assembly, said apparatus comprising an enclosure that is provided internally with compartments for accommodating said purifying means, said enclosure being provided with a system of channels and holes, formed within its material, for conveying the water from one compartment to the next.

2. The apparatus according to claim 1, wherein said enclosure consists of an open body and of at least one plate for closing said body, said body being provided with said compartments for accommodating said purifying means, said at least one closure plate being instead connected detachably to one of the open ends of the body and being provided internally with said system of channels and holes formed within its material.

3. The apparatus according to claim 2, comprising four closure plates provided with channels, referenced respectively as bottom cap, bottom cap liner, top cap and top cap liner.

4. The apparatus according to claim 3, wherein said bottom cap is connected to said bottom cap liner and the assembly constituted thereby is connected to a first open end of said body, while said top cap is connected to said top cap liner and the assembly constituted thereby is connected to a second open end of said body.

5. The apparatus according to claim 4, wherein gaskets are respectively interposed between said caps and said top caps and between said top caps and said body.

6. The apparatus according to claim 5, wherein it comprises a connection means for fixing said plates to each other and to said body, with said gaskets interposed between them.

7. The apparatus according to claim 1, wherein said filtering comprises a prefiltering assembly of the activated-carbon type and a main membrane-type filtration assembly.

8. The apparatus according to claim 1, comprising a first tank for collecting the purified water and a second tank for collecting the waste water before discharging it.

9. The apparatus according to claim 8, wherein said first and second tanks are formed in a corresponding number of compartments of said body.

10. The apparatus according to claim 1, comprising at least one water cooling module.

11. The apparatus according to claim 10, wherein said cooling module consists of at least one Peltier cell.

12. The apparatus according to claim 1, comprising a carbonation device that is connected to a bottle of CO<sub>2</sub> in order to carbonate the water.

13. The apparatus according to claim 12, wherein said carbonation device, said tanks, said CO<sub>2</sub> bottle and said water cooling module are accommodated in a corresponding  
5 number of additional compartments formed within said body.